LANIER RICOH savin

C264 Product Support Guide

Introduction

Launch Date	September 2006
S/N Configuration	**N16**YMMXXXX~
Product Code	C264

Product Code	Gestetner	Lanier	Ricoh	Savin
C264	CP6244+	LDD245	DX4542	3270DNP

Training Information

- The training delivery method for the C264 will be auto-certification for Service Professionals who are certified on the C231/C237/C238/C248/C249.
- The C264 has been added to the certification list of the current C231/C237/C238 Self-Pace Training Program. Technicians that are not certified on the C249 Series will be certified on the C264 on the successful completion of the C249 series (C231/C237/C238/C248/C267/C264) Computer Based Training (CBT) Self-Pace Training Program.

Documentation

Description	MIU Code
C264 Service Documentation Update Package	002820MIU
C249 Series Self Pace CBT Package	000778MIU
C249/C264 Service Manual	001780MIU
C249/C264 Parts Catalog	001781MIU

Note:

If you have any questions regarding this or any other training, please contact the Service Education and Development Division at (973) 882-5797.

The Service Documentation Update Package **(002820MIU)** includes the items in the table below:

TITLE / LIT TYPE	RFG-eSource Content ID #	FILE NAME
C249/C264 Service Manual	rfg009838	C249-C264_SM.pdf *includes only the following printed pages: Cover/Spine: pgs. **1-4**, Misc: pgs. **5-20** C264 Section: pgs. **215-422**
C249/C264 Point to Points	rfg009839	C249-C264_P2P.pdf *includes only the following printed pages: **18-19**
C264 Yellow Letter		C264_YelLet.doc
CD-ROM		
C231/C237/C238/C248/C267 Service Manual	rfg001065	C231_SM.pdf
C249/C264 Service Manual	rfg009838	C249-C264_SM.pdf
C231/C237/C238/C248/C267 Point to Points	rfg001063	C231_P2P.pdf
C249/C264 Point to Points	rfg009839	C249-C264_P2P.pdf
C231/C237/C238/C248/C267 Operating Instruction Manual	rfg001062	C231_OP.pdf
C249/C264 Operating Instruction Manual	rfg009840	C249-C264_OP.pdf
C231/C237/C238/C248/C267 Parts Catalog	rfg001064	C231_PC.pdf
C249/C264 Parts Catalog	rfg009837	C249-C264_PC.pdf
B406 Parts Catalog	rfg000847	B406_PC.pdf
C532 Parts Catalog	rfg000918	C532_PC.pdf
C600 Parts Catalog	rfg000927	C600_PC.pdf
C642 Parts Catalog	rfg022826	C642_PC.pdf
C647 Parts Catalog	rfg022827	C647_PC.pdf
C651 Parts Catalog	rfg022828	C651_PC.pdf
Core Technology Manual	rfg001540	Core Tech Manual.pdf

The C249 Series Self Pace CBT Package (**000778MIU**) includes the items in the table below:

TITLE/LIT TYPE	RFG-eSource Content ID #	FILE NAME
C249/C264 Service Manual	rfg009838	C249-C264_SM.pdf
C249/C264 Point to Points	rfg009839	C249-C264_P2P.pdf
C249 Service Managers Course Guide	rfg010418	C249_SMCG.doc
C249 CBT CD		
C249 CBT Install Instructions	rfg010416	C249_CBT-Install.doc
CD-ROM		
C231/C237/C238/C248/C267 Service Manual	rfg001065	C231_SM.pdf
C249/C264 Service Manual	rfg009838	C249-C264_SM.pdf
C231/C237/C238/C248/C267 Point to Points	rfg001063	C231_P2P.pdf
C249/C264 Point to Points	rfg009839	C249-C264_P2P.pdf
C231/C237/C238/C248/C267 Operating Instruction Manual	rfg001062	C231_OP.pdf
C249/C264 Operating Instruction Manual	rfg009840	C249-C264_OP.pdf
C231/C237/C238/C248/C267 Parts Catalog	rfg001064	C231_PC.pdf
C249/C264 Parts Catalog	rfg009837	C249-C264_PC.pdf
B406 Parts Catalog	rfg000847	B406_PC.pdf
C532 Parts Catalog	rfg000918	C532_PC.pdf
C600 Parts Catalog	rfg000927	C600_PC.pdf
C642 Parts Catalog	rfg022826	C642_PC.pdf
C647 Parts Catalog	rfg022827	C647_PC.pdf
C651 Parts Catalog	rfg022828	C651_PC.pdf
Core Technology Manual	rfg001540	Core Tech Manual.pdf

Product Concept

The C264 is a mid-price 400 dpi Digital Duplicator with a new User-friendly Operation Panel. The C264 is the replacement machine for the C249. The function and operation of the C264 and the C249 are basically identical. The master making mechanism and the image printing mechanism remain unchanged.

Major Technical Enhancements of C264

- Further reduced machine noise level.
- Soundproof parts have been added to the paper feed, paper delivery and other sections inside the machine.
- Optimized paper feed timing (I/O ROM modification).
- The shape of the drum flange has been changed.
- Drum home position detection newly added (green and red LEDs added).
- Improved ease of drum unit removal/re-insertion by increasing the durability of the drum drive gear.
- Improved paper alignment in the paper delivery tray by adding buffer fins to the side fences.
- Auto Off mode was added.
- High-speed printer with Ricoh optional controllers (VC-20 or **Printer Unit Type 40**) installed in the C264. (The interface board type 45 is needed to install VC-20).

Network Controller Option – Printer Unit Type 40

Network capability
Printer Unit Type 40 allows the B264 to be a network printer and to operate under the same environment as other printing equipments. The Customer can easily choose C264 from a printer list according to the print job type.

Ricoh Network Utilities
Printer Unit Type 40 is compatible with Web Image Monitor and SmartDeviceMonitor for Client/Admin. Central monitoring and administration of all equipments connected on the same network become available via these utilities.

Web Image Monitor	• Display the printer status information
	• Display the job and error history
	• Reset print jobs in progress
	• Print and Delete the stored files
	• Configure the system / the network settings
SmartDeviceMonitor for Admin	• Switch to / come out of Energy Saver mode
	• Display the printer status information
	• Display the job and error history
	• Check the system settings
	• Configure the network settings

C264 Main Frame Specifications

Configuration	Stand-alone
Master Process	Digital with 400 dpi thermal head
Scanning (Pixel Density)	400 dpi
Originals	Sheet/Book
Printing process	Fully automatic one-drum stencil system
Original Size	Maximum 300.0 x 432 mm / 11.8" x 17.0"
Copy Paper Size	Maximum 297 x 432 mm / 11.6" x 17.0" Minimum 70 x 148 mm / 2.8" x 5.9"
Copy Paper Weight	47.1 – 209.3 g/m^2, 12.5 – 55.6 lb.
Printing Area	A3 drum 290 x 410 mm / 11.4" x 16.1" A4 black drum 200 x 290 mm / 7.8" x 11.4"
Printing Speed	60, 75, 90, 105, 120 sheets/minute (5 steps)
Master Eject Box Capacity	65 masters (Normal conditions)
Reproduction Ratios	3 enlargements and 4 reductions

	A3 version	**DLT version**
Enlargement	141%, 122%, 115%	155%, 129%, 121%
Full Size	100%	100%
Reduction	93%, 87% 82%, 71%	93%, 77% 74%, 65%

Zoom	50% to 200%, in 1% steps
Power Source	America 120 V, 60 Hz Europe, Asia 220 – 240 V, 50/60 Hz
Noise Emission	

	Sound Power Level	**Operating Position Sound Power Level**
Standby:	Not more than 45 dB (A)	Not more than 31 dB (A)
Copying 60 rpm:	Not more than 73 dB (A)	Not more than 59 dB (A)
Copying 90 rpm:	Not more than 76 dB (A)	Not more than 62 dB (A)
Copying 120 rpm:	Not more than 79 dB (A)	Not more than 65 dB (A)

NOTE: The above measurements were made in accordance with ISO 7779 standard.

Dimensions (W x D x H):
Tables closed: 790 x 700 x 640 mm (31.1" x 27.6" x 25.2")
Tables opened: 1370 x 700 x 640 mm (53.9" x 27.6" x 25.2")

NOTE: Measurement Conditions
1) Without the ADF
2) Without the table

Weight:	America, Europe, Asia (Except for Chinese Version) 85 kg (187.4 lb) China 87 kg (191.8 lb) (Excluding ADF, platen cover, ink, and master)

Master Process Time	Less than 24 seconds (A4 copying) Less than 29 seconds (A3 copying) **NOTE:** Measurement Conditions 1) 100%size
Paper Table Capacity	1,000 sheets (80 g/m^2, 20 lb)
Paper Delivery Table Capacity	1,000 sheets (80 g/m^2, 20 lb)
Leading Edge Margin	5 ± 3 mm
Trailing Edge Margin	2 mm
Side Registration Adjustable Range	± 10 mm
Vertical Registration Adjustable Range	± 15 mm

Master Type	Thermal master roll type: 320 mm width, 110 m/roll (A3 master roll) Yield: 200 masters/roll (A3 Drum) 315 masters/roll (A4 Drum) Maximum run length per master: 4,000 prints
Master Storage Conditions	Temperature: 0 °C to 40 °C Humidity: 10% to 95% RH Recommended maximum storage period: One year after production date Note: Avoid locations exposed to direct sunlight.
Ink Type	600 ml cartridge type Available colors: Black, Red, Blue, Green, Brown, Purple, Yellow, Navy, Maroon, Orange, Teal, and Gray
Ink Storage Conditions	Temperature: -5 °C to 40 °C (Optimal conditions: 15 °C to 25 °C) Humidity: 10% to 95% RH (Optimal conditions: 20% to 70% RH) Recommended maximum storage period: 18 months after production date Note: Avoid locations exposed to direct sunlight.
Optional Equipment	• Platen cover • Automatic document feeder • A3 color drum • A4 black drum • Tape dispenser • Key Counter (locally acquired) • Interface kit (to connect the VC-20)

C600 (ADF) Specifications

Original Size	Standard Size (Single-sided Mode only): A3 to A5, DLT to HLT Non-standard Size (Single-sided Mode only): Max. width 297 mm Min. width 105 mm, Max. length 1,260 mm, Min. length 128 mm
Original Weight	40 ~ 128 g/m^2 (10 ~ 34 lbs.)
Table Capacity	50 sheets (80 g/m^2, 22 lbs.)
Original Standard Position	Center
Separation	FRR
Original Transport	Roller transport
Original Feed Order	From the top original
Reproduction Range	50 ~ 200%
Power Source	24 & 5 VDC from the copier
Power Consumption	25 W
Dimensions (W x D x H)	550 mm x 470 mm x 130 mm
Weight	9 kg or less

C624 (Printer Unit Type 40) Specifications

Product name	Printer Unit Type 40 (RCP40)
Supported resolutions	600 dpi / 400 dpi
Connectable machines	C244, C239, C249 and C264
Supported OS	Windows 98 2nd Edition, Windows ME, Windows 2000, Windows XP and Windows 2003 Server (Standard), Windows Vista (Scheduled in June 2007)
Printer language	GDI (RIP)
Host interface	Parallel IEEE 1284-B (Compatible, Nibble, ECP)
Network interface	100BASE-TX/10BASE-T
- Protocol	TCP/IP, IPX/SPX, NetBEUI
- Connector	RJ45
- Cable	STP
CPU	ANALOG Devices (16MHz)
EEPROM	1 megs
RAM	16 meg (transfer)
Power consumption	Below 10 W (DC 5V)
Dimensions (W x D x H)	320 x 300 x 215mm
Weight	2300g
Printer driver	Windows MINI driver
Platform	IBM compatible
Copy number out put	Available
Self test	Available
Printer functions	Print paper size setting, Printer-side operation, Clear modes, Auto-print after master-making, Eco mode, Print speed, Image rotation
Supported languages	English, German, French, Italian, Spanish, Dutch

C646 (VC-20 Controller) Specifications

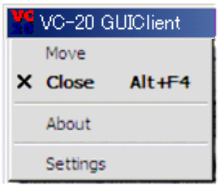
Product name	VC-20
Configuration	Embedded controller unit
Printer language	GDI
Host interface	USB-1.1/2.0 (Full speed mode)
Emulation mode	None
Fonts	None
Image Resolution	300, 400 dpi
Paper size	70 x 148 - Drum Size
Selectable Paper Size	A3, A4, A5, A6, B4, B5, B6, Tabloid, Legal, Letter, Statement, F(8 x 13), Env #10, 8kai, 16kai
CPU	Atmel 89c5130
EPROM	None (32kbyte in CPU)
RAM	16MB
Power source	From main unit
Power consumption	Below 2W (DC5V)
Software drivers	Win 98SE/ME/2000/XP, Win Server2000/Server2003
Platform	PC/AT Compatible
Brand	World Generic
Job preview	No
Job queue	No
Job rotation	Yes, 180 degrees (With All DD) 90 degrees (With Paper Size Detectable DD)
Job Cancel	Available
Cycle	Available
Skip Print	Available (2/4/6)
Eco. Mode	Available
Dot shape	STD GDI
Auto detection Priport	Available
Copy number out put	Available
Auto Printer detection	Available
Connection test	Available
Driver language	English, German, French, Italian, Spanish, Dutch, Russian, Chinese, Japanese
Operation Instructions	English, German, French, Italian, Spanish, Dutch, Russian, Chinese

VC-20 GUIClient

VC-20 GUIClient is an additional feature and support mechanism for both end-users and field service personnel. With the duplicators that do not have any operation side LEDs such as model C261, there is no way for VC20PrinterServer to communicate the duplicator's condition to the operator, in this case VC-20 GUIClient provides a superior mechanism for correctly displaying the duplicator condition to the operator or service personnel. VC-20 GUIClient also provides two-way stream of communication between the operator and the duplicator, this allows VC-20 GUIClient to display warning message when paper size mismatch occurs, the operator can then instruct VC-20 GUIClient to continue making a master when the size mismatch is corrected. This reduces wasted masters and paper. VC-20 GUIClient provides a graphical view of the duplicator status, VC-20 and Job. VC-20 GUIClient also provides a mechanism to change some of the default operating conditions of VC-20PrinterServer. Version information for both VC-20 GUIClient and VC20PrinterServer can be viewed from VC-20 GUIClient.

Status

1. Information and Settings

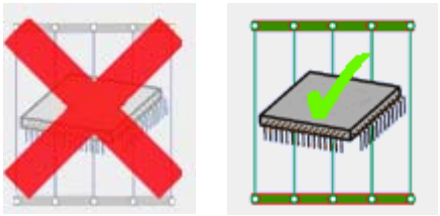


Information & settings can be made from the VC-20 GUIClient drop down menu. To access the menu, left click on the VC-20 GUIClient icon located on the top corner of the VC-20 GUIClient title bar or right click on the GUIClient title bar.

2. VC-20 GUIClient Connection Status

The green icon (right) displayed when VC-20 GUIClient is connected to VC20PrinterServer.

3. VC-20 PCB Status

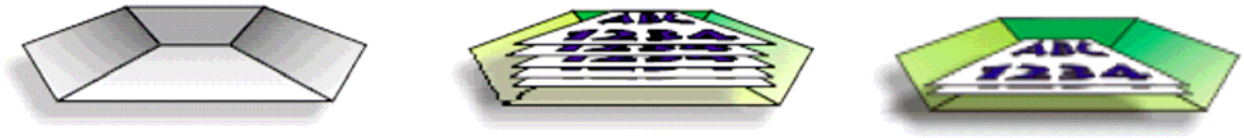


The Red Cross (left) appears when VC20PrinterServer cannot configure VC-20 PCB. The green check mark shows when it successfully configured VC-20 PCB.

4. **Job Cancel**

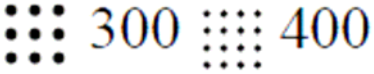
The user can cancel the current job by pressing the “cancel” button in VC-20 GUIClient. When the “cancel” button is pressed, VC-20 GUIClient sends a job cancel command to VC20PrinterServer. VC20PrinterServer will stop processing the current job and delete the print data for current job. While the job is being cancelled the button will be orange.
This function is only available when the job is shown on Job Tray **(5.)**

5. Job Tray



The tray icon changes from gray to green when the
VC20PrinterServer informs VC-20 GUIClient that a print job is being processed. The document icon will return to gray if there are no more jobs for VC20PrinterServer to process. The green icon will show fewer pages when the VC-20 PCB has received print data.

6. Duplicator Resolution

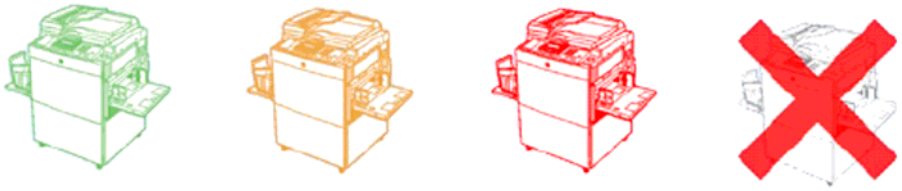


After VC20PrinterServer communicates with connected duplicator, VC-20 GUIClient will display the resolution of the connected duplicator.

7. Drum Type Detection (DD with Color Drum Detection Only)

After VC20PrinterServer communicates with connected duplicator, VC-20 GUIClient will display the type of drum in the duplicator. Black dots (left) mean black drum and the color dots (right) mean color drum. With DD, which is not equipped with color drum detection feature such as the C261, the black dots are always shown.

8. Duplicator Status



The VC-20 GUIClient displays a red cross for duplicator status if no duplicator had been detected by VC20PrinterServer. After VC-20PrinterServer has correctly initialized, the icon will change to one of three colors:

1) Green - The duplicator is in Idle condition.
2) Orange - The duplicator is in Busy condition.
3) Red - The duplicator is in Error condition or printing job not finished due to abnormal condition.

Target Reliability

Items	For C264	Remarks
Estimated Unit life	10,000K prints or five years. 30K master-makings	Whichever comes first
Max C/O	4,000 prints	
Average PV	100K prints / month	
Max PV	170K prints / month	
Duty	600K prints / month	
Average C/O	70 prints / master	
Target MCBC	480K prints	
PM cycle	PM interval 600K prints or 6 months	Whichever comes first

Note: All items above are calculated based on the machine ACV assuming the following:

1. PM is regularly performed as recommended.
2. Recommended types of paper are used.
3. The machine is installed in the opera table environment required by specification.

Machine Configuration

Auto Document Feeder
DF Type 85

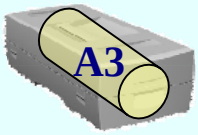
New
Network Controller
(Printer Unit Type 40)

Tape Dispenser
Tape Dispenser
Type 20
(Generic)

Exposure Glass Cover*
Platen Cover Type 1018

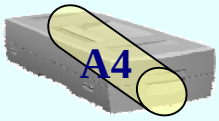
Mainframe

Optional Drum
Color Drum
Type 45R(L)

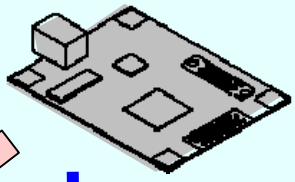


Color Drum
Type 45R(M) ***only for China B4 model***

Color Drum
Type 45R(S)

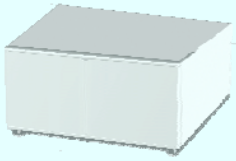


Controller***
VC-20 Controller
(Embedded type)



Interface Board
Type 45

Cabinet**



Note: The C264 cannot work with the TC-II and the LS3000R.

*: Exposure glass cover is not supplied with the mainframe from shipment at the factory.
**: Cabinet is common to the model C249.
***: VC-20 controller cannot be connected with the mainframe without Interface Board Type 45.

Machine / Options EDP Codes / Product ID Order Numbers

Product / Country Code	EDP Code	Product ID #	Item	Product Name
C264-52	243042	479-1675	Model C264 Generic for NA and LA (110-120V/50-60Hz)	CP6244+/LDD 245/DX4542/3270DNP
C618-58	243095	480-0392	A3 Color Drum for Model C264 (Generic)	Color Drum Type 45R (L)
C620-58	243096	N/A	A4 BLACK DRUM for Model C264 (Generic)	Black Drum Type 45R (S)
C600-99	205693	481-0601	ADF Unit for C264, C262, C265 (Generic)	DF Unit Type 85
B406-03	412524	481-0397	Platen Cover for C264, C262, C265 (Generic)	Platen Cover Type 1018
C624-17	243136	024-3136	Network Printer Controller For C244, C239, C249 and C264	Printer Unit Type 40 (RCP40)*
C646-59	243107	481-7113	Printer Controller for C264, C267, C261	Printer Unit VC-20
C650-59	243080	481-7114	Interface Board for connection to VC-20 (Generic)	Interface Board Type 45
C651-59	243084	481-7160	Tape Dispenser (Generic)	Tape Dispenser Type 20
N/A	001272MIU	N/A	Cabinet For C264	Type 30 Cabinet
C649-16	243087	N/A	Brand Plaque for Ricoh DX4542 [100 pieces / unit]	Brand Plaque for Ricoh DX4542
C649-18	243085	N/A	Brand Plaque for Gestetner CP6244+ [100 pieces / unit]	Brand Plaque for Gestetner CP6244+
C649-17	243088	N/A	Brand Plaque for Savin 3270DNP [100 pieces / unit]	Brand Plaque for Savin 3270DNP
C649-19	243086	N/A	Brand Plaque for Lanier LDD245 [100 pieces / unit]	Brand Plaque for Lanier LDD245

***Notes:**

- Optional Drums, DF, Platen Cover, Cabinet and Tape Dispenser are common with the C249.
- **Need C624 firmware version 2.0.0. If you install ver 1.2.7 or older on a C264 mainframe with a Printer Unit Type 40 installed, you will not be able to use User Tools or the Printer Controller SP modes.**

Supply EDP Codes / Product ID Numbers

EDP Code	Product ID#	Item	Product Name
893196	N/A	A3 Master for Model C264 (110m Master x 2 rolls / case)	Ricoh Priport Master HQ40L
893198	84572	A3 Master for Model C264 (110m Master x 2 rolls / case)	Gestetner Copyprinter Master CPMT23
893199	4572	A3 Master for Model C264 (110m Master x 2 rolls / case)	Savin Master Type 3560
893200	480-0196	A3 Master for Model C264 (110m Master x 2 rolls / case)	Lanier Master LDD145
893188	N/A	Black Ink for Model C264 (600ml Ink x 5 cartridges / case)	Ricoh Priport Black Ink HQ40
893192	84571	Black Ink for Model C264 (600ml Ink x 5 cartridges / case)	Gestetner Copyprinter Black Ink CPI11
893193	4571	Black Ink for Model C264 (600ml Ink x 5 cartridges / case)	Savin Black Ink Type 3560
893194	480-0195	Black Ink for Model C264 (600ml Ink x 5 cartridges / case)	Lanier Black Ink LDD145
893207	480-0204	Red Ink for Model C264 (Generic) [600ml Ink x 5 cartridges / case]	Digital Duplicator Ink Red Type VI
893208	480-0205	Blue Ink for Model C264 (Generic) [600ml Ink x 5 cartridges / case]	Digital Duplicator Ink Blue Type VI
893209	480-0206	Brown Ink for Model C264 (Generic) [600ml Ink x 5 cartridges / case]	Digital Duplicator Ink Brown Type VI
893210	480-0207	Green Ink for Model C264 (Generic) [600ml Ink x 5 cartridges / case]	Digital Duplicator Ink Green Type VI
893211	480-0208	Navy Ink for Model C264 (Generic) [600ml Ink x 5 cartridges / case]	Digital Duplicator Ink Navy Type VI
893212	480-0209	Purple Ink for Model C264 (Generic) [600ml Ink x 5 cartridges / case]	Digital Duplicator Ink Purple Type VI
893213	480-0210	Gray Ink for Model C264 (Generic) [600ml Ink x 5 cartridges / case]	Digital Duplicator Ink Gray Type VI
893214	480-0211	Yellow Ink for Model C264 (Generic) [600ml Ink x 5 cartridges / case]	Digital Duplicator Ink Yellow Type VI
893215	480-0212	Teal Ink for Model C264 (Generic) [600ml Ink x 5 cartridges / case]	Digital Duplicator Ink Teal Type VI
893216	480-0213	Maroon Ink for Model C264 (Generic) [600ml Ink x 5 cartridges / case]	Digital Duplicator Ink Maroon Type VI
893217	480-0214	Orange Ink for Model C264 (Generic) [600ml Ink x 5 cartridges / case]	Digital Duplicator Ink Orange Type VI

Note: Inks and Master are common with the C249.

Installation Requirements

Power Connection

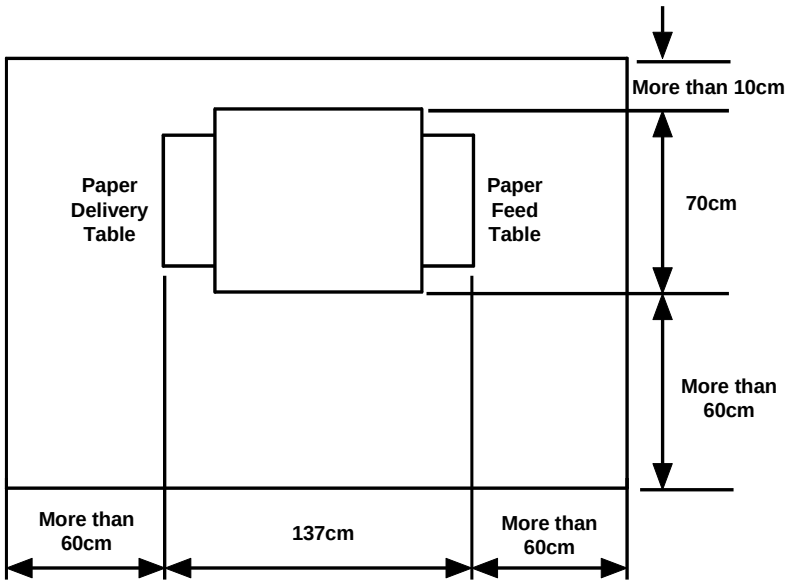
Securely connect the power cord to a power source.
Make sure that the wall outlet is near the machine and easily accessible.
Make sure the plug is firmly inserted in the outlet.
Do not pinch the power cord.
Avoid multi-wiring.
Power Source: 120 V, 60 Hz
The required wall outlet for the C264 is a NEMA 5-15R receptacle. →

Installation Times

Unit	Installation Time (Minutes)
C264 (mainframe)	20 to 30
Color Drum Type 45R (L)	5
Black Drum Type 45R (S)	5
DF Unit Type 85	15
Platen Cover Type 1018	10
Printer Unit VC-20	30
Interface Board Type 45	20
Tape Dispenser Type 20	10

Machine Space Requirements

Place the machine near a power source, providing clearance as shown below. This machine has a paper delivery table with buffer fins, so the width of the paper delivery table is changed from 136 cm (previous model) to 137 cm (this model).



PM Table Parts / Special Tools

NOTES:

1. **Listed part numbers are based on the machines produced at the time of this document issue.**
2. **The most up to date bulletins and part catologs can be found on RFG-eSource (**http://www.rfg-esource.com/).

C264 PM Parts List

Unique/Common
U: Unique to B4 model
C: Common with C249

Part Number	Description	Q'ty/ Unit	PM Interval	Unique or Common
Paper Feed/Registration				
C2382835	Paper feed roller	1	1,200k	C
C2382835	Paper pick-up roller	1	1,200k	C
C2382845	Friction pad	1	1,200k	C
Press Roller				
C2643050	Pressure roller	1	1,200k	C
C2683050	Pressure roller – B4	1	1,200k	U (B4)
Paper delivery unit				
C2493875	Transport belt	2	1,200k	C
Drum Unit				
C2492381	Cloth Screen – A3	1	1,200k	C
C2682381	Cloth Screen – B4	1	1,200k	U (B4)
C6202381	Cloth Screen – A4 (Option)	1	1,200k	C
C2382460	Ink roller gear (one-way clutch)	1	3,000k	C

Special Tools

The following special tools are needed to maintain the C264 in the field:

Part Number	Description	Q'ty	Unique or Common
A0069104	Scanner Positioning Pin (4 pcs / set)	1	C (B123)
N8036701	Flash Memory Card – 4MB	1	C (General)

Initial Recommended Service Parts For C264

NOTES:

1. **Listed part numbers are based on the machines produced at the time of this document issue.**
2. **Refer to PM Tables and Special Tools table for additional initial recommended part numbers.**
3. **The most up to date bulletins and part catalogs can be found on RFG-eSource (http://www.rfg-esource.com/).**
4. **Parts in this list are "replace as necessary".**

Part Number	Description	Q'ty/ Unit
C2492293	Master Flange - Mm52	1
C2492294	Master Flange - Mm57	1
C2641463	Operation Panel: NA: Ass'y (-11/52)	1
C2621673	Holder: Lens: Ass'y	1
A2505736	Lamp Stabilizer	1
C2645155	Paper Size Sensor Board	1
C2642070	Cutter Unit: Ass'y	1
C2492151	Thermal Head - A3	1
C2645140	Ink Board	1
C2492309	Clamper Assembly	1
C2645120	PCB: MPU: EXP: Ass'y	1
C2645135	Program: Main: EXP	1
C2645150	Motor Control Board	1
C2645300	DC Power Supply - 384W (-11/52)	1
11071067	Fuse: ET-6.3A	1
11070392	Fuse - 6.3A 125V	4
11070652	Fuse (glass Case) - 10a - 125v	1

Service Information

Operation Panel Counter Information

Machine has a 7 digit electronic master and print counters.

To display the electronic master and print counters,
Press & hold the # key for 3 seconds.

Branding

Branding kits available.

Serial Number Location

Look into machine from paper feed table, on left inside frame.

Storage & Transportation Requirements

		Storage	Transportation	Installation
Printer Unit Type 40	**Essential condition**	• -20 to 40 C • 10 to 90 %RH • Storage period: Max 18 months • Stack Max: 12 cartons	• -20 to 60 C • 10 to 90 %RH • Stack Max: 6 cartons	• 10 to 30 C (Standard: 23 C) • 20 to 90 %RH (Standard: 65%)
VC-20	**Essential condition**	• -20 ~ 40°C • 10 ~ 90% RH • Stack Max: 12 cartons • Max storage18 months	• -10 ~ 60°C • 10 ~ 90% RH • Stack Max: 6 cartons	
Main frame	**Essential condition**	• -10 to 40 °C • 10 to 90 %RH • Stack Max: 4 cartons	• -20 to 60 °C • 10 to 90 %RH • Stack Max: 2 cartons	• 10 to 30 C (Standard: 23 C) • 20 to 90 % RH (Standard: 65%) • Front to Back level difference less than 5mm • Side to Side level difference less than 5mm
	Max storage	18 months after production under the essential condition		
DF type 85	**Essential condition**	• -10 to 40 °C • 10 to 90% RH • Stack Max: 10 cartons	• -10 to 40 °C • 10 to 90 % RH • Stack Max: 10 cartons	• 10 to 30 °C (Standard: 23 °C) • 20 to 90 % RH (Standard: 65%)
	Max storage	18 months after production under the essential condition		
Color Drum	**Essential condition**	• -10 to 40 °C • 10 to 90% RH • Stack Max: 10 cartons	• -10 to 40 °C • 10 to 90 % RH • Stack Max: 6 cartons	• 10 to 30 °C (Standard: 23 °C) • 20 to 90 % RH (Standard: 65%)
	Max storage	18 months after production under the essential condition		
Black Ink & Color Ink	**Essential condition**	• -5 to 40 °C • 10 to 95 % RH • Stack max: 12 cartons	• -5 to 40 °C • 10 to 95 % RH • Stack max: 6 cartons	• 10 to 30 °C (Standard: 23 °C) • 20 to 90 % RH (Standard: 65%)
	Max storage	18 months after production within the range of 15 to 25 °C 12 months after production under the essential condition		
Master	**Essential condition**	• 0 to 40 °C • 10 to 95 % RH • Stack max: 6 cartons	• 0 to 40 °C • 10 to 95 % RH • Stack Max: 4 cartons	• 10 to 30 °C (Standard: 23 °C) • 20 to 90 % RH (Standard: 65%)
	Max storage	12 months after production under the essential condition		

Ink Yield Targets

Ink consumption is directly related to the following 6 variables:

Variable elements	Amount Consumed ◄ Low	High ►
Printing Speed	High speed	Low speed
Temperature	Low	High
Image Area	Small	Large
Paper	Low absorbency	High absorbency
Copies / Original	High	Low
Drum size	Small	Large

The number of copies per cartridge can be estimated using the following formula.

$$\mathbf{X} = \frac{A \times Y}{B + (Y \times Z)}$$

X: Copies per cartridge
A: Amount of ink the cartridge
Y: Average number of copies per original
Z: Ink consumed per copy
B: Ink consumed per ejected master

A: Amount of ink per cartridge

For the C264, this is 600g, A=600

Z: Ink consumed per copy

The following matrix shows ink consumption (gram) per one square meter (m^2) for the C264.

		A3 Drum		A4 Drum	
		Standard	Economy mode	Standard	Economy mode
		90cpm	90cpm	90cpm	90cpm
23°C 65% humidity	Avg.	**4.1**	3.4	4.8	4.3

E.g.) **Z:** Ink consumption per copy (A3 drum, A4 paper [Type 6200], 6% chart, printing speed: 90 cpm, Standard mode)

Z = **4.1** x (0.21 x 0.297) x 0.06 = 0.015g

B: Ink consumed per ejected master

For the C264, the consumption is as follows:

	A3 drum	A4 drum
	23°C, 65% humidity	23°C, 65% humidity
Avg.	4.8 (g)	**2.3 (g)**

Sample Ink Yield Calculation results (normal temperatures, 90cpm, A3 drum, A4 paper, 6% chart)

C/O = 30 X = (600 x 30) / {4.8 + (30 x 0.015)} = **3,429 copies**
C/O = 50 X = (600 x 50) / {4.8 + (50 x 0.015)} = **5,405 copies**
C/O = 100 X = (600 x 100) / {4.8 + (100 x 0.015)} = **9,523 copies**
C/O = 200 X = (600 x 200) / {4.8 + (200 x 0.015)} = **15,385 copies**

*: The above figures are intended as a guideline only. Actual yield may vary based on environment, operation, paper, speed and machine conditions

Contact Information

Name	Contact
Technical Services Call Center (Hotline)	Ricoh: 1-800-537-4264 Savin/Gestetner: 1-800-291-6044 Lanier: 1-800-333-3147
Application Help Desk (Software Issues)	Ricoh Phone Card: 2 Call - 000781MIU, 5 Call - 000900MIU Savin Phone Card: 2 Call - 12992, 5 Call - 12993 Gestetner Phone Card: 2 Call - 12994, 5 Call - 12995
National Reclamation Center	(800) 557-4264 / http://www.nrc-usa.com
Technology Solutions Center Web Site	http://tscweb.net/
Ricoh Web Site	http://www.ricoh-usa.com/
RFG-eSource	http://www.rfg-esource.com/
Savin iLINC Web Site	http://w3.savin.com
Gestetner ILINE Web Site	http://w3.gestetnerusa.com
Lanier Web Site	http://www.lanier.com
Headquarter Web Sites	Ricoh Corporation: http://www.ricoh-usa.com Savin Corporation: http://www.savin.com Gestetner Corporation: http://www.gestetnerusa.com/
Material Safety Data Sheets	1-800-336-MSDS (6737)
Eastern Training Center	(973) 882-2200 http://www.ricohuniversity.com/
Western Training Center	(714) 566-3692
Lanier Education Center	(678)-824-3000

Document Revisions

Version 1.0 – Original.
Version 1.1 – Addition of Printer Unit Type 40 information on pages 3, 7, 12, 13 & 18.